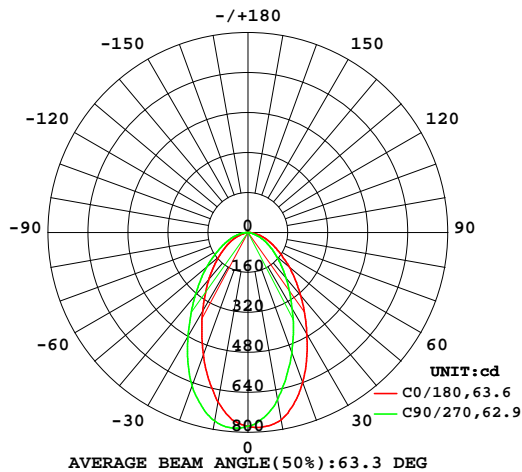


## LUMINAIRE PHOTOMETRIC TEST REPORT

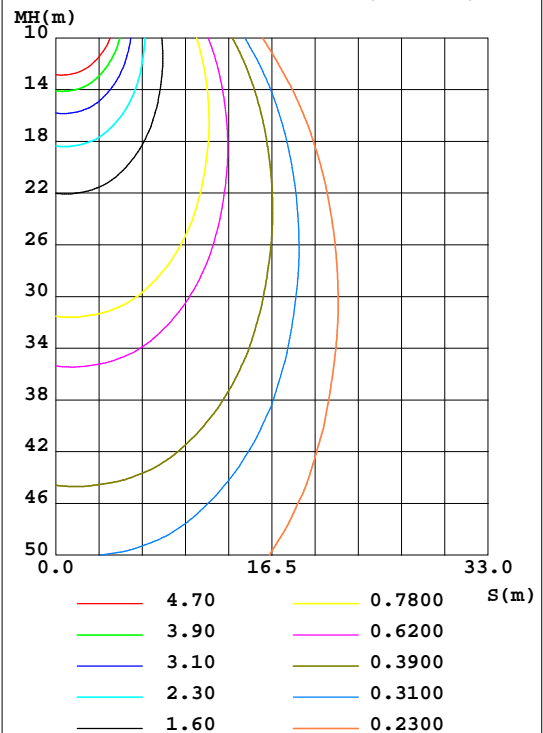
NAME: 5RS049-7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.44 lm/W			
MODEL	6000K	Imax(cd)	787.2	S/MH(C0/180)	0.81
NOMINAL POWER(W)	11	LOR(%)	100.0	S/MH(C90/270)	1.00
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1132.2	h UP,DN(C0-180)	0.0,45.2
NOMINAL FLUX(lm)	1132.24	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,54.8
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	231.2	h down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:will  
 Test Date:15 April 2023

g Range: 0 - 90DEG  
 Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity:65.0%  
 Test Distance:8.989m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

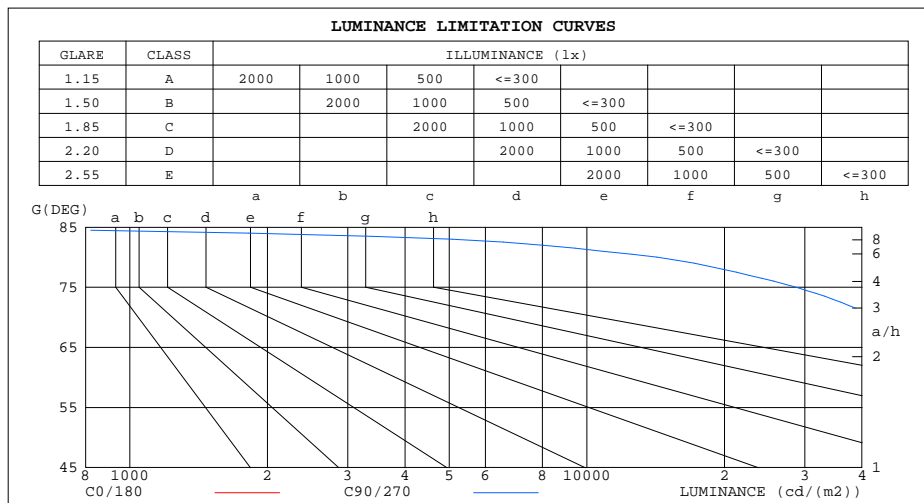
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	779.6	755.7	742.8	742.3	750.5	768.2	784.3	786.8	0- 5	18.41	18.41	1.63,1.63
10	761.8	709.5	680.1	675.2	690.0	729.1	766.5	774.3	5- 10	53.19	71.59	6.32,6.32
15	710.4	638.1	596.9	588.7	608.4	664.6	718.5	729.2	10- 15	81.70	153.3	13.5,13.5
20	640.2	560.2	513.9	502.2	522.8	589.7	653.8	665.1	15- 20	101.8	255.0	22.5,22.5
25	556.5	477.7	431.5	418.4	437.5	504.7	569.6	581.2	20- 25	112.7	367.7	32.5,32.5
30	471.6	397.4	354.5	343.9	362.7	422.5	480.3	491.7	25- 30	115.1	482.8	42.6,42.6
35	396.8	330.0	291.3	282.3	298.8	349.0	398.1	410.0	30- 35	111.2	594.1	52.5,52.5
40	328.3	270.7	237.4	229.5	243.6	286.7	329.0	339.4	35- 40	104.1	698.2	61.7,61.7
45	269.1	219.6	190.7	183.4	195.0	231.7	268.0	277.6	40- 45	94.30	792.5	70,70
50	217.4	175.6	151.1	144.3	153.7	185.3	216.6	224.8	45- 50	82.99	875.5	77.3,77.3
55	170.3	137.6	118.2	112.3	119.2	144.5	169.7	176.2	50- 55	70.65	946.1	83.6,83.6
60	133.2	106.1	90.09	85.43	91.22	111.4	131.7	137.4	55- 60	58.37	1005	88.7,88.7
65	103.1	79.38	65.28	61.10	66.00	83.29	100.8	106.0	60- 65	46.82	1051	92.9,92.9
70	77.38	55.05	41.55	36.98	41.07	57.60	74.55	79.80	65- 70	35.54	1087	96,96
75	52.99	33.35	20.99	15.54	18.21	34.41	51.20	56.00	70- 75	24.12	1111	98.1,98.1
80	25.66	14.16	6.984	3.682	5.683	17.70	29.42	30.98	75- 80	13.61	1125	99.3,99.3
85	10.59	4.006	0.0579	0	0.0835	6.536	12.73	13.50	80- 85	5.822	1130	99.8,99.8
90	2.082	0.8238	0.0707	0	0.0835	1.156	2.212	2.430	85- 90	1.816	1132	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:will  
 Test Date:15 April 2023

g Range: 0 - 90DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity:65.0%  
 Test Distance:8.989m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

NAME: 5RS049-7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	42987	235
80	52299	14232
75	72449	28695
70	80055	42987
65	86334	54657
60	94287	63756
55	105042	72900
50	119692	83164
45	134683	95442

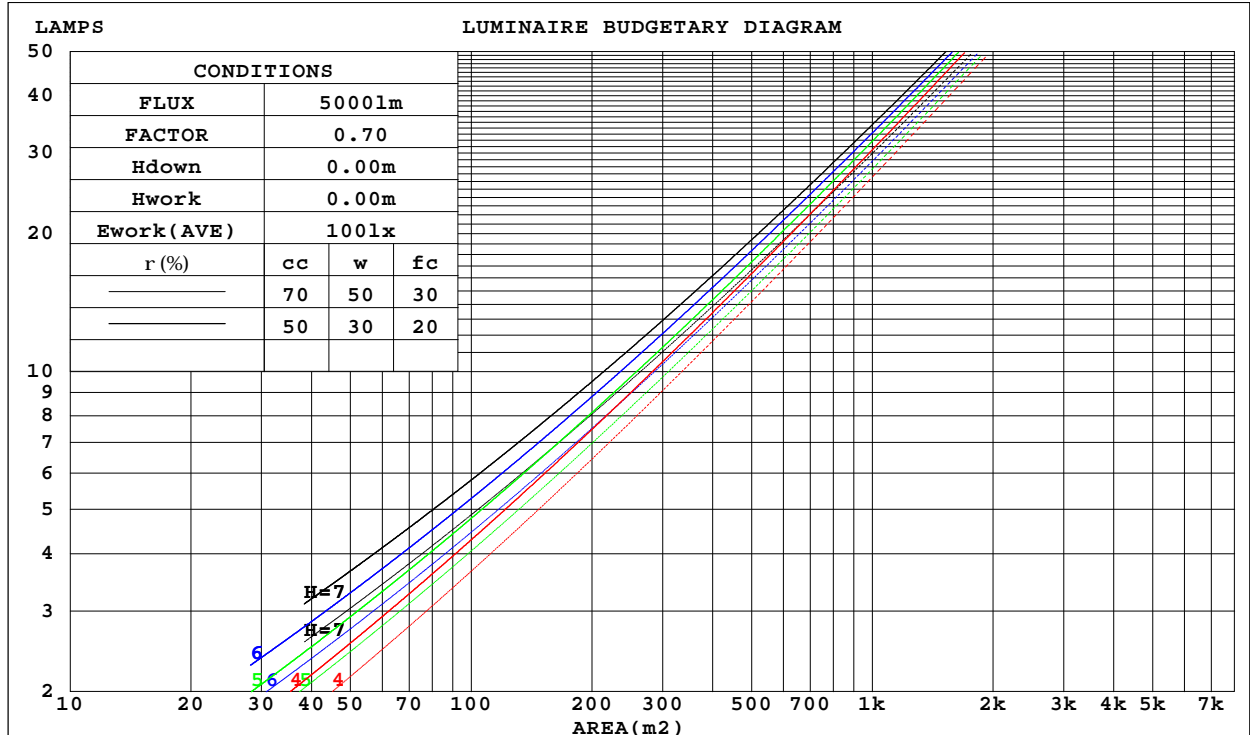
C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 15 April 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 5RS049-7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

r <sub>cc</sub>	80%			70%			50%			30%			10%			0
r <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.04	1.00	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.89	.84	.91	.86	.82	.87	.84	.81	.85	.82	.79	.77
3.0	.86	.79	.74	.85	.78	.73	.82	.76	.72	.79	.75	.71	.77	.73	.70	.68
4.0	.78	.71	.65	.77	.70	.64	.74	.68	.64	.72	.67	.63	.70	.66	.62	.60
5.0	.71	.63	.58	.70	.63	.57	.68	.62	.57	.66	.61	.56	.64	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.51	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.60	.52	.47	.59	.52	.47	.58	.51	.46	.56	.50	.46	.55	.50	.46	.44
8.0	.55	.48	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.52	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.39	.48	.43	.39	.37
10.0	.48	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.40	.36	.34



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 15 April 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

WEC AND CCEC

NAME: 5RS049-7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.250 .142 .045	.243 .139 .044	.230 .132 .042	.218 .126 .040	.207 .120 .039	
2.0	.240 .132 .040	.234 .129 .040	.223 .124 .038	.213 .119 .037	.203 .115 .036	
3.0	.226 .120 .036	.221 .118 .036	.211 .114 .035	.202 .111 .034	.193 .107 .033	
4.0	.212 .110 .032	.207 .108 .032	.198 .105 .031	.190 .102 .031	.183 .099 .030	
5.0	.198 .101 .029	.194 .100 .029	.186 .097 .029	.179 .095 .028	.173 .092 .028	
6.0	.186 .093 .027	.182 .092 .026	.175 .090 .026	.169 .088 .026	.163 .086 .026	
7.0	.175 .086 .024	.171 .085 .024	.165 .084 .024	.160 .082 .024	.154 .080 .024	
8.0	.164 .080 .023	.162 .080 .022	.156 .078 .022	.151 .077 .022	.146 .075 .022	
9.0	.155 .075 .021	.153 .074 .021	.148 .073 .021	.143 .072 .021	.139 .071 .020	
10.0	.147 .070 .020	.145 .070 .019	.140 .069 .019	.136 .068 .019	.132 .067 .019	

rcc	80%	70%	50%	30%	10%	0
rw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
rfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)					
0.0	.190 .190 .190	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.176 .157 .139	.151 .134 .120	.103 .093 .083	.059 .054 .048	.019 .017 .016	
2.0	.165 .132 .104	.142 .114 .090	.097 .079 .063	.056 .046 .037	.018 .015 .012	
3.0	.156 .114 .081	.134 .098 .070	.092 .068 .049	.053 .040 .029	.017 .013 .009	
4.0	.148 .100 .064	.127 .087 .056	.087 .060 .039	.050 .035 .023	.016 .012 .008	
5.0	.140 .089 .052	.120 .077 .045	.083 .054 .032	.048 .032 .019	.015 .010 .006	
6.0	.133 .081 .043	.114 .070 .038	.079 .049 .027	.046 .029 .016	.015 .009 .005	
7.0	.126 .073 .037	.109 .064 .032	.075 .045 .023	.044 .026 .013	.014 .009 .004	
8.0	.120 .068 .031	.103 .059 .027	.072 .041 .019	.042 .024 .012	.013 .008 .004	
9.0	.115 .063 .027	.099 .054 .024	.068 .038 .017	.040 .023 .010	.013 .007 .003	
10.0	.109 .058 .024	.094 .051 .021	.065 .036 .015	.038 .021 .009	.012 .007 .003	

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:will  
Test Date:15 April 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:8.989m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

NAME: 5RS049—7					TYPE:		WEIGHT:				
SPEC.:					DIM.:		SERIAL No.:				
MFR.: EVERFINE					SUR.:		Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H	2H	28.1	29.4	28.3	29.6	29.8	26.6	27.9	26.9	28.1	28.3
	3H	29.2	30.4	29.5	30.6	30.9	27.3	28.5	27.6	28.7	29.0
	4H	29.7	30.8	30.0	31.0	31.3	27.5	28.6	27.8	28.8	29.1
	6H	29.9	31.0	30.2	31.3	31.5	27.5	28.5	27.8	28.8	29.1
	8H	30.0	31.0	30.3	31.3	31.6	27.4	28.4	27.8	28.7	29.0
	12H	30.0	31.0	30.3	31.3	31.6	27.4	28.4	27.7	28.6	28.9
4H	2H	28.3	29.5	28.6	29.7	30.0	27.1	28.2	27.4	28.5	28.7
	3H	29.6	30.6	30.0	30.9	31.2	28.0	29.0	28.3	29.3	29.5
	4H	30.2	31.1	30.6	31.4	31.7	28.2	29.1	28.6	29.4	29.7
	6H	30.5	31.3	30.9	31.7	32.0	28.2	29.0	28.6	29.4	29.7
	8H	30.6	31.3	31.0	31.7	32.1	28.2	29.0	28.6	29.3	29.7
	12H	30.7	31.3	31.1	31.7	32.1	28.2	28.8	28.6	29.2	29.6
8H	4H	30.2	31.0	30.6	31.3	31.7	28.4	29.1	28.8	29.5	29.8
	6H	30.6	31.2	31.0	31.6	32.0	28.5	29.1	28.9	29.5	29.9
	8H	30.7	31.3	31.2	31.7	32.1	28.4	29.0	28.9	29.4	29.8
	12H	30.8	31.3	31.3	31.7	32.2	28.4	28.9	28.9	29.3	29.8
12H	4H	30.2	30.9	30.6	31.2	31.6	28.4	29.0	28.8	29.4	29.8
	6H	30.6	31.1	31.0	31.5	32.0	28.5	29.0	28.9	29.4	29.9
	8H	30.7	31.2	31.2	31.6	32.1	28.5	28.9	28.9	29.4	29.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.5 / - 0.6					
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.5					
2.0H	+ 0.8 / - 0.7					+ 0.6 / - 0.9					

CIE Pub.117, 1132 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 0.4$ )  
Area: 0.002826 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 15 April 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME: 5RS049—7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

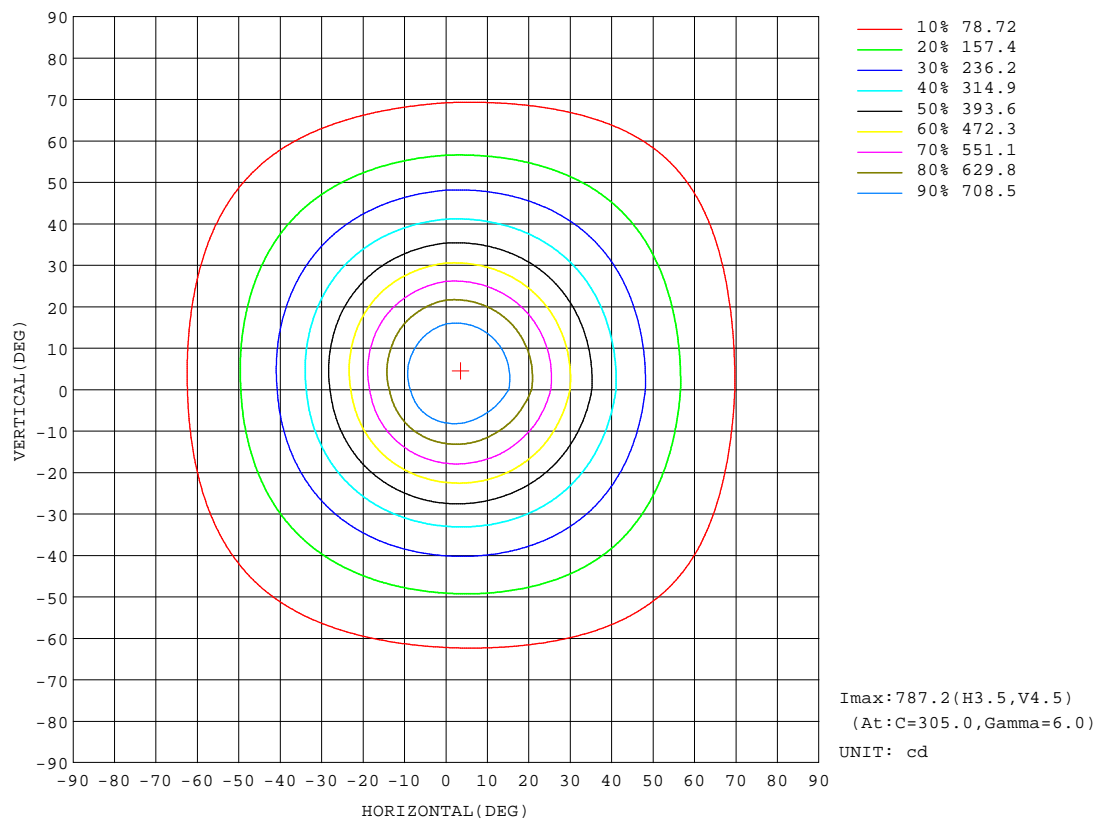
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	58	52	67	58	52	66	57	52	46
0.80	77	68	61	76	67	61	75	66	61	55
1.00	85	76	70	84	75	69	82	76	69	63
1.25	91	82	77	89	82	76	87	80	75	69
1.50	95	87	82	94	86	81	91	85	80	74
2.00	100	94	89	99	93	88	96	90	86	80
2.50	103	97	93	102	96	92	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	106	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 2.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:will  
 Test Date:15 April 2023

g Range: 0 - 90DEG  
 g Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
 Humidity:65.0%  
 Test Distance:8.989m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

NAME: 5RS049-7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



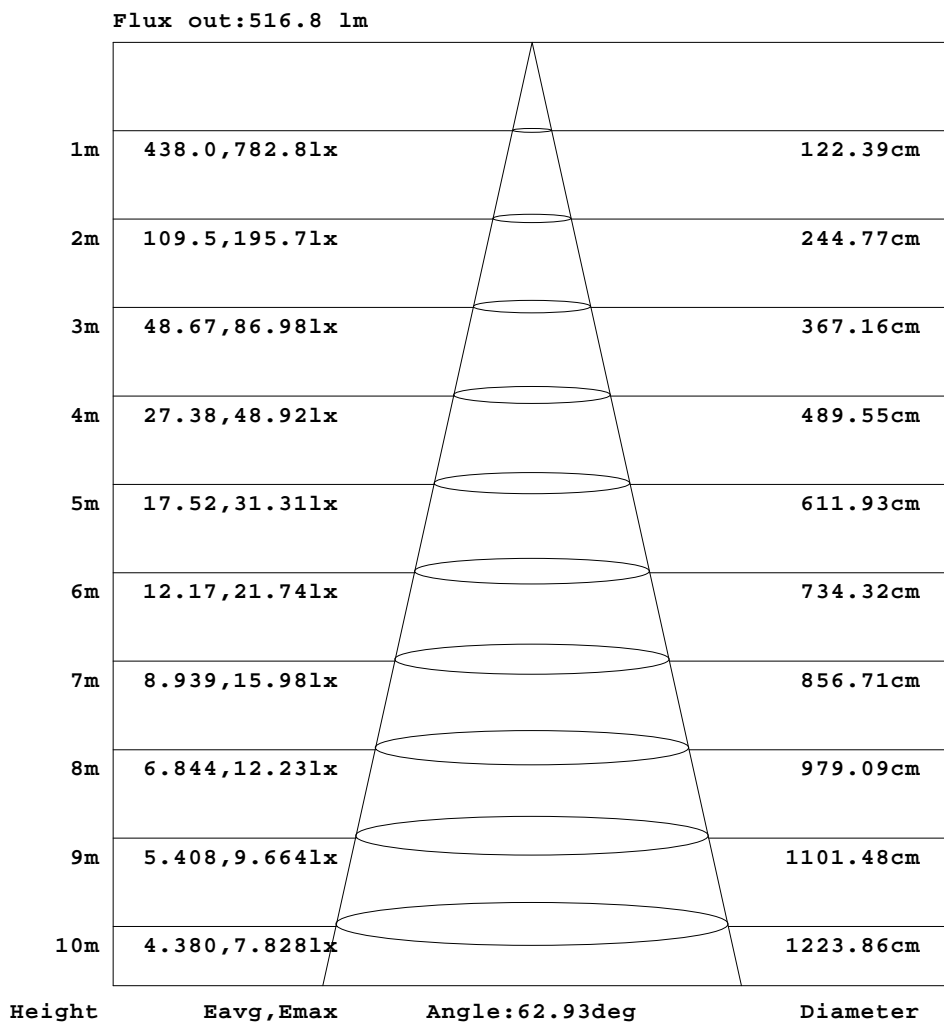
C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 15 April 2023

deg Range: 0 - 90DEG  
Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:



### AAI Figure

NAME: 5RS049-7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



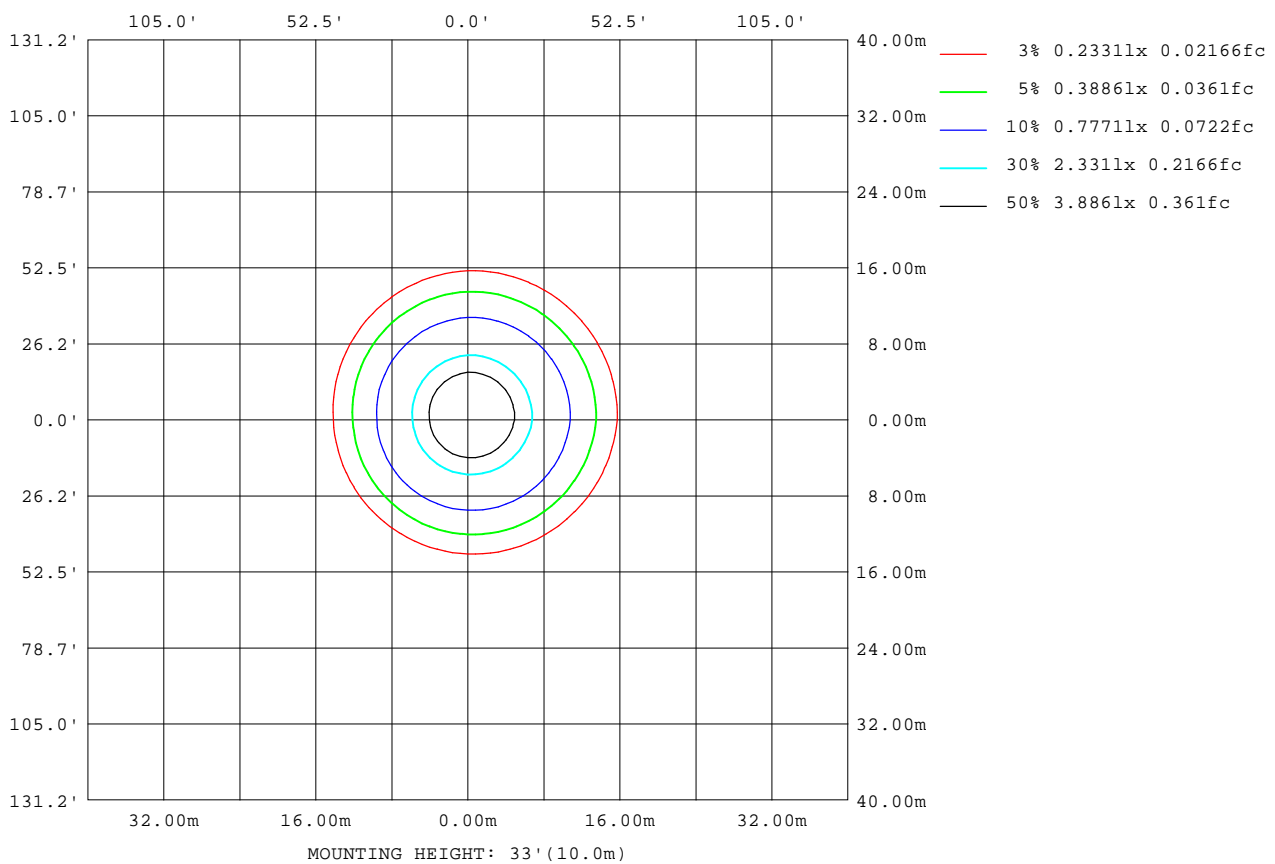
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360 DEG  
C Interval: 2.5 DEG  
Test Speed: HIGH  
Temperature: 25.3 DEG  
Operators: will  
Test Date: 15 April 2023

g Range: 0 - 90 DEG  
g Interval: 0.5 DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

NAME: 5RS049-7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 15 April 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

## LED Avg.L Report

NAME: 5RS049—7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

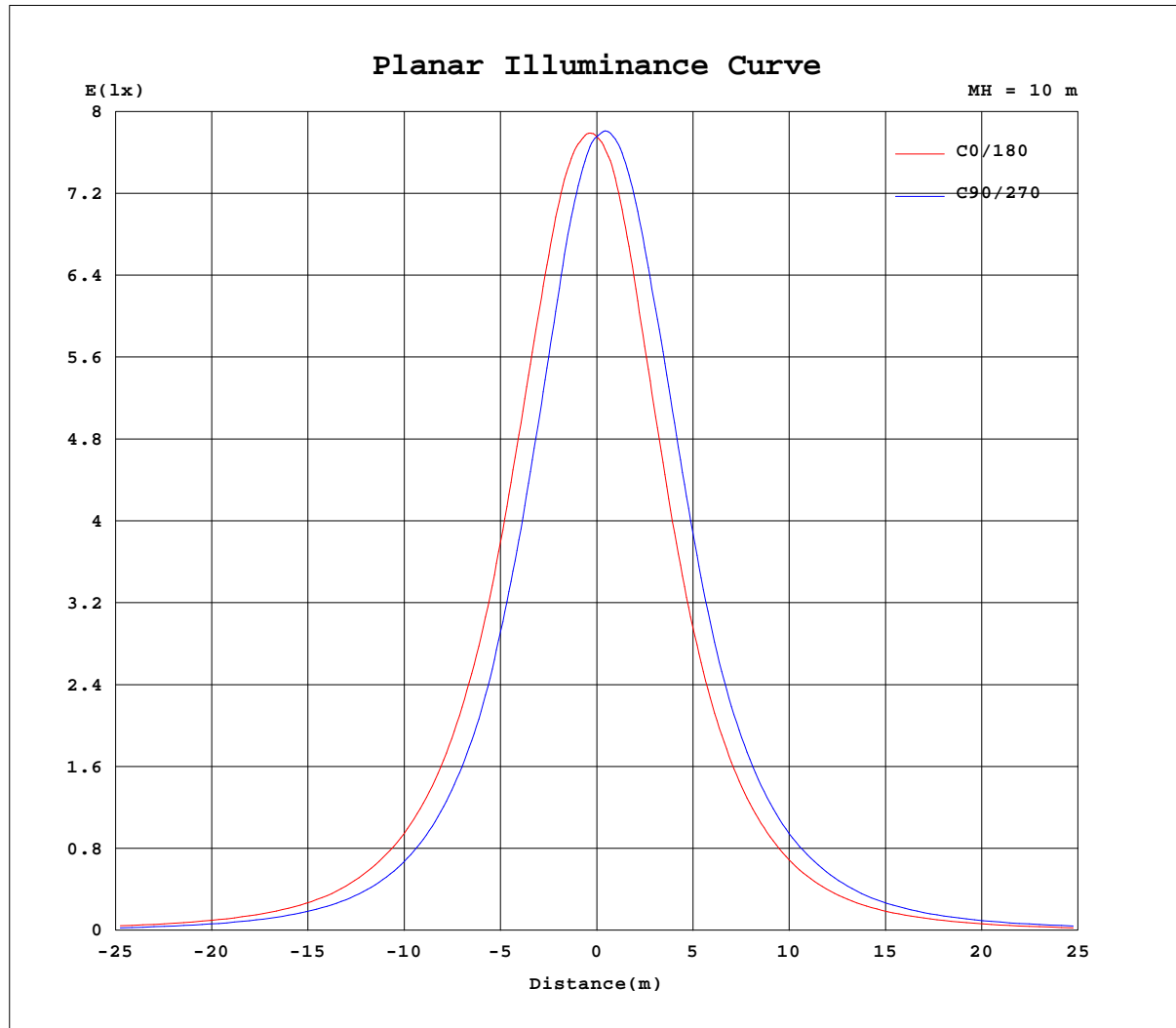
AvgL	cd/m2
L_0~180(65)av	70799
L_0~180(75)av	48675
L_0~180(85)av	21663
L_90~270(65)av	69526
L_90~270(75)av	49344
L_90~270(85)av	25951
L_45(65)av	69033
L_45(75)av	47608
L_45(85)av	24408

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 15 April 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 2.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: will  
Test Date: 15 April 2023

g Range: 0 - 90DEG  
g Interval: 0.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 8.989m [K=1.0000]  
Remarks:















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